

What is claimed is:

1. A projection display apparatus, comprising:
a plurality of light sources;
a projection lens disposed in front of each of the plurality of light sources for magnifying emitting light from the plurality of light sources; and
a screen having a predetermined curvature to control a view distance and focus the light rays projected from the projection lenses,

wherein the curvature is convex on a side of the screen opposite to the plurality of light sources.

2. The projection display apparatus as claimed in claim 1, wherein the plurality of light sources are red (R), green (G), and blue (B) light sources.

3. The projection display apparatus as claimed in claim 2, wherein the plurality of light sources are monochromatic cathode ray tubes (CRTs).

4. The projection display apparatus as claimed in claim 1, wherein the screen includes:

a Fresnel screen having a certain curvature to convert the light rays incident from the projection lenses to have predetermined optical directional characteristics in an optical axis direction; and

a Lenticular screen disposed in front of the Fresnel screen and having a curvature corresponding to the Fresnel screen, and for forming images from the light rays passing through the Fresnel screen, controlling a view angle, and enhancing an entire screen luminance.

5. The projection display apparatus as claimed in claim 4, wherein the view distance is determined based on a focal length of the Fresnel screen and a curvature radius of the Fresnel screen.

6. The projection display apparatus as claimed in claim 1, wherein the view distance is minimized.

7. The projection display apparatus as claimed in claim 4, wherein the Fresnel screen has a curvature in a width direction.

8. The projection display apparatus as claimed in claim 4, wherein the Fresnel screen has a curvature in a height direction.

9. The projection display apparatus as claimed in claim 4, wherein the Fresnel screen has a curvature in both a width and a height direction.